

PUBLIC NOTICE

PERMIT APPLICATION: NRS #02.350

APPLICANT: State of Tennessee
Department of Transportation
Environmental Planning and Permits Division
Suite 900, J. K. Polk Bldg.
505 Deaderick Street
Nashville, TN 37243-0334
615-253-2441

LOCATION: SR-840 from southeast of SR-100 to 0.3 mile west of Bending Chestnut Road
Williamson County

WATERSHED DESCRIPTION: The affected watersheds consist of tributaries on either side of the Tennessee Valley Divide including tributaries to the South Harpeth River (South Harpeth Creek, White Oak Branch, Copperas Branch, Kelley Creek, and unnamed tributaries) and Locke Branch, a tributary to the Duck River. Land use is predominantly agricultural and mature forests with sporadic residential areas.

South Harpeth Creek is bedrock/cobble bottomed and varies in width approximately 10 to 20 ft. with a broad floodplain. The existing vegetation along the stream channel varies from open field to wide (>50 ft.) wooded riparian zones. Numerous unnamed tributaries to this stream will be affected by the proposed activity. Portions of South Harpeth Creek have been designated as Tier 2, high quality waters.

White Oak Branch is primarily bedrock bottomed and is approximately 5- 9 ft. wide with 4 - 6 ft. high banks. The stream flows through a narrow incised channel with numerous spring seeps within the project area. Existing vegetation along the stream channel is mature elm/oak mixed deciduous forest. This branch has been designated as a Tier 1.

Copperas Branch is bedrock/cobble bottomed and varies in width approximately 5 –7 ft. with a non-incised channel and excellent flow. Associated with this perennial stream is a large man-made lake and associated littoral wetlands. The stream channel above and below the lake flows through mature forest (beech, poplar, hickory). This branch flows into Kelley Creek, which has been designated as a Tier 2, high quality stream.

Kelley Creek is primarily bedrock bottomed and varies in width approximately 5 – 8 ft. with low (1 – 2 ft.) banks. The existing vegetation along the channel is mature forest and some successional forest in clear-cut areas. On January 17, 2001, this stream was evaluated by TDEC and determined to be a Tier 2, high quality stream.

PROJECT DESCRIPTION: The applicant proposes to construct 6.453 miles of State Route 840 along a new alignment for public use. The project will consist of four 12 ft. lanes, 12 ft. shoulders, 70 ft. median, and 18 ft. typical to ditch centerline. Construction would include the permanent filling of 0.924 acre and temporary filling of 0.537 acre of wetlands. Debiting, at a 2:1 ratio, 1.85 acres of available wetland credit from the Harpeth Wetland Mitigation bank, would mitigate permanent impacts to wetlands. The project would involve 4,214 feet of stream encapsulations or losses, which would be mitigated through payment of \$842,800.00 to the In-Lieu Fee Stream mitigation Program.

Station 470+00+/- (Lt.) to 470+70+/- (Rt.) (Lat: 35.9247 Long: 87.1753): Isolated Wetland. Permanent impact (Fill) to 0.058 ac. of wetlands

Station 477+60+/- to 481+20+/- (Lat: 35.9223 Long: -87.1750): Wetland. Permanent impact (Fill) to 0.235 ac. and temporary impact to 0.219 ac. of wetlands.

Station 510+20+/- to 512+80+/- (Lat: 35.9451 Long: 87.1666): Unnamed tributary to Turnbull Creek. Existing 396 ft. of open spring/seep channel. Proposed 396 ft. of rock fill French drain.

Station 524+00+/- to 528+00+/- (Lat: 35.9122 Long: -87.1639): Wetland. Permanent impact (Fill) to 0.420 ac. and temporary impact to 0.247 ac. of wetlands.

Station 556+50+/- to 558+00+/- (Lat: 35.9078 Long: 87.1553): Wetland. Permanent impact (Fill) to 0.211 ac. and temporary impact to 0.071 ac. of wetlands.

Station 510+20+/- to 512+80+/- (Lat: 35.9451 Long: -87.1666): Unnamed tributary to Turnbull Creek. Proposed 396 ft. of rock fill French drain.

Station 572+22.45 (Lat: 35.9051 Long: -87.1516): South Harpeth Creek. Existing open channel is 387 ft. Proposed installation of 336 ft. of 1 @ 10 ft. X 5 ft. reinforced concrete box culvert with 25 ft. riprap at outlet.

Station 600+21 (Lat: 35.9010 Long: -87.1423): Unnamed tributaries to South Harpeth Creek and wetlands. Proposed 891 ft. of 7-span prestressed concrete bulb-tee bridge (West Bound) and 492 ft. of 4-span prestressed concrete bulb-tee bridge (East Bound).

Station 634+15: Unnamed tributaries to South Harpeth Creek. Existing 381 ft. of open channel, two springhouses with 150 ft. of open channel. Proposed 359 ft. of 1 @ 8 ft. X 6 ft. reinforced concrete box culvert, two spring boxes with 48 ft. of 18" drain pipe, and 150 ft. of open channel.

Station 656+75.47 (Lat: 35.8932 Long: 87.1276): Greene Hollow Branch. Existing 302 ft. of open channel including spring. Proposed 302 ft. of 18" fabric-wrapped perforated pipe in rock fill French drain and 50 ft. of riprap at outlet.

Station 678+58.00 (Lat: 35.8908 Long: -87.1203): Copperas Branch and Unnamed tributary and wetlands. Proposed 464 ft. of 4-span prestressed concrete bulb-tee bridge West Bound and 464 ft. of 4-span prestressed concrete bulb-tee bridge East Bound.

Station 712+91.22 (Lat: 35.8867 Long: 87.1088): White Oak Branch and unnamed tributary. Existing 627 ft. of open channel and 67 ft. of open channel. Proposed 547 ft. of 66" reinforced concrete pipe with 50 ft. of riprap at outlet and 100 ft. of open channel.

Station 718+88.00 (Lat: 35.8862 Long: -87.1077): Unnamed tributaries to White Oak Branch. Existing 390 ft. of open channel (S11), 90ft. of open channel (S11A), and 387 ft. of open channel (S12A). Proposed 337 ft. of 48" reinforced concrete pipe with 120 ft. of open channel at inlet (S-11, S-11A) and 404 ft. of rock fill French drain (S-12A).

Station 725+25.08 (Lat: 35.8858 Long: -87.1066): Unnamed tributaries to White Oak Branch. Existing 390 ft. of open channel (S12) and 55 ft. of open channel (S12 trib). Proposed 388 ft. of 24" reinforced concrete pipe (S12) and 100 ft. of open channel (S-12 tributary).

Station 733+03.00 (Lat: 35.8842 Long: -87.1038): Proposed 312 ft. of 3-span prestressed concrete bulb-tee bridge.

Station 741+14.50 (Lat: 35.8832 Long: -87.1023): Unnamed tributaries to Kelley creek. Proposed 339 ft. of 3-span prestressed concrete bulb-tee bridge and spring box with 148 ft. of 18" drain pipe.

Station 763+00+/- (Rt.) (Lat: 35.8790 Long: 87.0948): Unnamed tributary to Kelley Creek. Existing 600 ft. of open channel. Proposed 372 ft. of 30" reinforced concrete pipe (Ramp D) 175 ft. of 30" reinforced concrete pipe (Field Entrance), and 50 ft. of open channel.

Enhanced erosion control devices would be used to prevent sediment from entering flowing water. Upon completion of the work, all disturbed areas would be stabilized.

In accordance with the Tennessee Antidegradation Statement (Rule 1200-4-3-.06), the division has determined that the proposed activity will not result in degradation to water quality. This determination is based on the use of bridges over High Quality waters and minimization of impacts on Tier 1 water bodies. Impacts to streams mitigated through the Tennessee Stream Mitigation Program are considered to be no net loss in resource.

PERMIT COORDINATOR: Brian Canada, STATE OF TENNESSEE, Department of Environment and Conservation Division of Water Pollution Control, 7th Floor, L&C Annex, 401 Church Street, Nashville, Tennessee 37243-1534

USGS TOPOGRAPHIC QUADRANGLE: **Craigfield, TN (56-NW), Fariview, TN (56-NE),
and Theta, TN (56-SE)**

TO WHOM IT MAY CONCERN: The application described above has been submitted for an Aquatic Resource Alteration Permit pursuant to *The Tennessee Water Quality Control Act of 1977*, T.C.A. §69-3-108. In addition, §401 of *The Federal Water Pollution Control Act* (Clean Water Act) requires that the applicant must obtain a water quality certification from the state if the activity may result in a discharge of dredged or fill material into the navigable waters and federal permit is required. A federal permit may be required under §404 of the *Clean Water Act* from the U. S. Army Corps of Engineers or §26a of the *Tennessee Valley Authority Act of 1933* from the Tennessee Valley Authority. Where a federal permit is required for this activity, a water quality certification may be issued pursuant to this public notice.

The purpose of this notice is to advise all concerned of the proposal for which a permit is sought, and to solicit comments and information necessary to evaluate the probable impact of the activities upon the respective water resources. The decision whether to issue or deny will in part be based upon that evaluation. All factors that may be relevant to the proposals will be considered.

Persons wishing to comment on or object to the issuance of a proposed permit are invited to submit comments in writing to the Department of Environment and Conservation Division of Water Pollution Control at the address listed above. Written statements received in this office on or before the date of expiration of the comment period thirty days from the publication date of this notice will become part of the record and will be considered in the determination. The applicant's name and permit number should be referenced.

Interested persons may also request in writing that the director of the Division hold a public hearing on any application. The request must be filed within the comment period and must indicate the interest of the person requesting it, and the reasons that the hearing is warranted. When there is sufficient public interest, the director shall hold a hearing in accordance with Rule 1200-4-7-.04(4)(f).

After consideration of comments submitted during the public comment period, the hearing record if any, and the requirements of federal and State law, the director of the Division will make determinations regarding the final action on each permit. Permit applications, supporting documentation, and related comments are available for review and/or copying.





